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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/013,057	10/30/2001	Kenji Terasawa	SCEITO 3.0-096	8282	
530	7590 06/22/		EXAMINER		
•	DAVID, LITTENI .Z & MENTLIK	SKED, MATTHEW J			
	AVENUE WEST	ART UNIT	PAPER NUMBER		
WESTFIELD, NJ 07090			2626		
			DATE MAILED: 06/22/200	DATE MAILED: 06/22/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
		10/013,057	TERASAWA ET AL.		
Off	fice Action Summary	Examiner	Art Unit		
		Matthew J. Sked	2626		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHICHEVEI - Extensions of ti after SIX (6) M - If NO period for Failure to reply Any reply recei	IED STATUTORY PERIOD FOR REPLY R IS LONGER, FROM THE MAILING DA me may be available under the provisions of 37 CFR 1.13 ONTHS from the mailing date of this communication. Treply is specified above, the maximum statutory period we within the set or extended period for reply will, by statute, wed by the Office later than three months after the mailing erm adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	L. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
1)⊠ Respo	nsive to communication(s) filed on <u>17 Ap</u>	<u>oril 2006</u> .			
2a)∏ This ad	ction is FINAL . 2b)⊠ This	action is non-final.			
•	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of C	Claims				
4a) Of to 5) ☐ Claim(6) ☑ Claim(7) ☐ Claim(s) <u>1,2,4-9,11-16 and 18-22</u> is/are pendin the above claim(s) is/are withdraw s) is/are allowed. s) <u>1, 2, 4-9, 11-16 and 18-22</u> is/are rejec s) is/are objected to. s) are subject to restriction and/or	vn from consideration.			
Application Pap	pers				
10) The dra Applica Replace	ecification is objected to by the Examiner awing(s) filed on is/are: a) accent may not request that any objection to the coment drawing sheet(s) including the correction of the correction of the correction of the correction of the correction is objected to by the Example 2.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 3	5 U.S.C. § 119				
12) Acknow a) All 1. 2. 6	vledgment is made of a claim for foreign b) Some * c) None of: Certified copies of the priority documents Certified copies of the priority documents Copies of the certified copies of the priority application from the International Bureau attached detailed Office action for a list of	have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage		
Attachment(s) 1) Notice of Refe	rences Cited (PTO-892)	4) Interview Summary	(PTO-413)		
2) D Notice of Draft	sperson's Patent Drawing Review (PTO-948) sclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da			

DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments with respect to claims 1, 8, 15 and 22 have been considered but are moot in view of the new ground(s) of rejection.
- 2. The objection to claim 21 is withdrawn in view of the amendment received 4/17/06.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 7, 8, 14, 15, 21 and 22 rejected under 35 U.S.C. 102(b) as being anticipated by Nakajima et al. (U.S. Pat. 6,529,875).

As per claims 1, 8, 15 and 22, Nakajima teaches an entertainment apparatus, method, storage unit and executable program with which a voice input device for receiving a voice input from a player is usable, the entertainment apparatus comprising:

character control means for controlling the operation of a game character (generates control signals for the video game, abstract);

sound interval extracting means for extracting information of a relative sound interval from the voice of the player received through said voice input device (extracts

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information from the inputted voice to compare with stored spectral word information for voice recognition, col. 6, lines 8-26);

sound volume extracting means for extracting information of a sound volume from the voice of the player received through said voice input device (extracts the volume, col. 11, line 57 to col. 12, line 29);

reference voice data storage means for storing voice data as an evaluation reference about the relative sound interval and the sound volume with respect to the voice to be inputted by the player (recognition data and volume level data are stored for comparison, col. 6, lines 8-26 and col. 11, lines 16-25); and

wherein said character control means periodically compares said extracted information of the relative sound interval and said extracted information of the sound volume with the voice data as said evaluation reference, and determines operation contents of the character on the basis of results of the comparison (game unit performs a variety of operations depending on the result of the comparison of the voice recognition and volume level determination, col. 11, lines 3-45);

wherein said character control means makes the character perform an operation according to a result of the evaluation (game unit performs a variety of operations depending on the result of the comparison of the voice recognition and volume level determination, col. 11, lines 3-45).

5. As per claims 7, 14 and 21, Nakajima teaches the character control means compares said extracted information of the sound volume and the voice data of the sound volume as said evaluation reference, and as a result of this comparison, said

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control means exaggerates a behavior of the character as the extracted sound volume is larger than the sound volume as the evaluation reference, and moderates the behavior of the character as the extracted sound volume is smaller than the sound volume as the evaluation reference (depending on the determined volume level a different movement is performed, col. 11, lines 30-45 and col. 12, lines 31-42).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 2, 9 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakajima in view of Ozawa et al. (U.S. Pat. 6,538,666).

As per claim 2, 9 and 16, Nakajima does not teach a guide display means for indicating contents of the voice to be inputted by the player.

Ozawa teaches a guide display means for indicating contents of the voice to be inputted by the player (displays the possible verbal inputs the user can say in different colors before the user speaks the commands, col. 16, lines 57-66).

It would have been obvious to one of ordinary skill in the art at the time of invention to modify the system of Nakajima to have a guide display means for indicating contents of the voice to be inputted by the player as taught by Ozawa because, as Ozawa teaches, it would prevent the user from uttering words at random because they

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do not know which words to enter, which prevents the player from losing interest in the game (col. 16, lines 66-67 and col. 17, lines 1-2).

8. Claims 4, 11 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakajima in view of Ozawa and taken in further view Comerford et al. (U.S. Pat. 6,748,361).

Nakajima and Ozawa do not teach an expression mode display means for indicating an expression mode of the voice to be inputted by the player.

Comerford teaches a personal speech assistant that prompts the user to speak louder or to use certain command words that the application would recognize (col. 18, lines 42 to col. 19, line 5).

It would have been obvious to one of ordinary skill in the art at the time of invention to modify the system of Nakajima and Ozawa to have an expression mode display means for indicating an expression mode of the voice to be inputted by the player as taught by Comerford because it would indicate to the user the appropriate way to express the input so as to obtain the preferred output hence making the system more user-friendly.

9. Claims 5, 12 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakajima in view of Bellomo et al. (U.S. Pat. 6,766,299).

Nakajima does not teach said character control means changes a regenerating speed of said image data on the basis of the difference between timing for indicating

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contents of the voice to be inputted by said player and timing for starting the input of the voice by the player.

Bellomo et al. (U.S. Pat. 6,766,299), cited in the previous Office Action, teaches a speech controlled animation system that allows the animation to speak in the user's voice. Each phoneme from the phoneme train of the user is mapped to a mouth shape animation sequence where similar mouth shapes corresponding to similar phonemes are mapped together into one event (col. 7, lines13-60). Therefore, with a constant sampling rate (col. 5, lines 18-28) the faster the user speaks the more likely the phonemes are to be different at each sampling interval thus giving a sequence of events without much grouping and more changes in animation frames hence giving faster animation.

It would have been obvious to one of ordinary skill in the art at the time of invention to modify the system of Nakajima so that the character control means changes a regenerating speed of said image data on the basis of the difference between timing for indicating contents of the voice to be inputted by said player and timing for starting the input of the voice by the player as taught by Bellomo because it would give the animation a better appearance to have the sound and image synchronized and using a reference timing would give a fast and accurate calculation of the rate of the user's speech which would speed up processing.

10. Claims 5, 12 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakajima in view of Yamamoto (U.S. Pat. 6,577,998).

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Nakajima does not teach that said character control means compares said extracted information of the relative sound interval and the voice data of the relative sound interval as said evaluation reference, and, as a result of the comparison, said character control means exaggerates an expression of the character as the extracted relative sound interval is higher than the relative sound interval as the evaluation reference, and moderates the expression of the character as the extracted relative sound interval is lower than the relative sound interval as the evaluation reference

Yamamoto teaches that said character control means compares said extracted information of the relative sound interval and the voice data of the relative sound interval as said evaluation reference, and, as a result of the comparison, said character control means exaggerates an expression of the character as the extracted relative sound interval is higher than the relative sound interval as the evaluation reference, and moderates the expression of the character as the extracted relative sound interval is lower than the relative sound interval as the evaluation reference (lips are oscillated according to changes in the frequency of the input voice, hence a high frequency would oscillate the lips more than a low frequency hence exaggerating and moderating the expression of the character, col. 8, lines 59-63).

It would have been obvious to one of ordinary skill in the art at the time of invention to modify the system of Nakajima so that said character control means compares said extracted information of the relative sound interval and the voice data of the relative sound interval as said evaluation reference, and, as a result of the comparison, said character control means exaggerates an expression of the character

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as the extracted relative sound interval is higher than the relative sound interval as the evaluation reference, and moderates the expression of the character as the extracted relative sound interval is lower than the relative sound interval as the evaluation reference because it would allow the exaggeration of a character movement to be controlled by more than just the volume hence giving a more robust character control.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew J. Sked whose telephone number is (571) 272-7627. The examiner can normally be reached on Mon-Fri (8:00 am - 4:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on (571) 272-7843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MS 06/19/06

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